PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 648D (BALTIMORE ANNAPOLIS BLVD) AND RIGGS AVE/McKINSEY RD IN ANNE ARUNDEL COUNTY. THE MODIFICATION WILL INCLUDE UPGRADING THE EXISTING PEDESTRIAN SIGNALS TO AUDIBLE TACTILE PEDESTRIAN PUSHBUTTONS (APS) AND COUNTDOWN PEDESTRIAN SIGNALS (CPS) ON THE SOUTH LEG OF THE INTERSECTION. MD 648D IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

- 1. THE INTERSECTION OPERATES IN A NEMA FOUR (4) PHASE, FULLY-ACTUATED MODE. THE MAINLINE MD 648D PHASES OPERATE CONCURRENTLY WITH PERMISSIVE LEFT TURN MOVEMENTS. THE SIDE STREET OPERATES AS A SPLIT PHASE WITH WESTBOUND (McKINSEY RD) AS THE LEAD PHASE, EASTBOUND (RIGGS AVE) HAS AN ALTERNATE PEDESTRIAN PHASE. BUS PRE-EMPTION EXISTS ON NORTHBOUND MD 648D.
- 2. AN EXISTING NEMA FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER IN A NEMA SIZE 5 POLE MOUNTED CABINET SHALL BE UTILIZED AT THIS LOCATION.

III. SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS: TO CROSS MD 648D (BALTIMORE ANNAPOLIS RD)

- 1. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS BALTIMORE ANNAPOLIS AT McKINSEY AND RIGGS, WAIT."
- 2. WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACTS

	CONTAC	13
	DISTRICT (DISTRICT 5)	OFFICE OF TRAFFIC AND SAFETY
	MR. LEE STARKLOFF DISTRICT ENGINEER 410-841-1001	MS. CORREN JOHNSON CHIEF, TRAFFIC OPERATIONS 410-787-7630
	MS. KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC 410-841-1019	VACANT ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
•	MR. MIKE HUBER DISTRICT UTILITY ENGINEER 410-841-1039	MR. EDWARD RODENHIZER CHIEF, SIGNAL OPERATIONS SECTION 410-787-7650
	MR. JAMES FOLDEN ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-841-1031	MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS SECTION 410-787-7670
	MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410-841-1013	MR. MICHAEL STOCKER SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7696

EQUIPMENT LIST

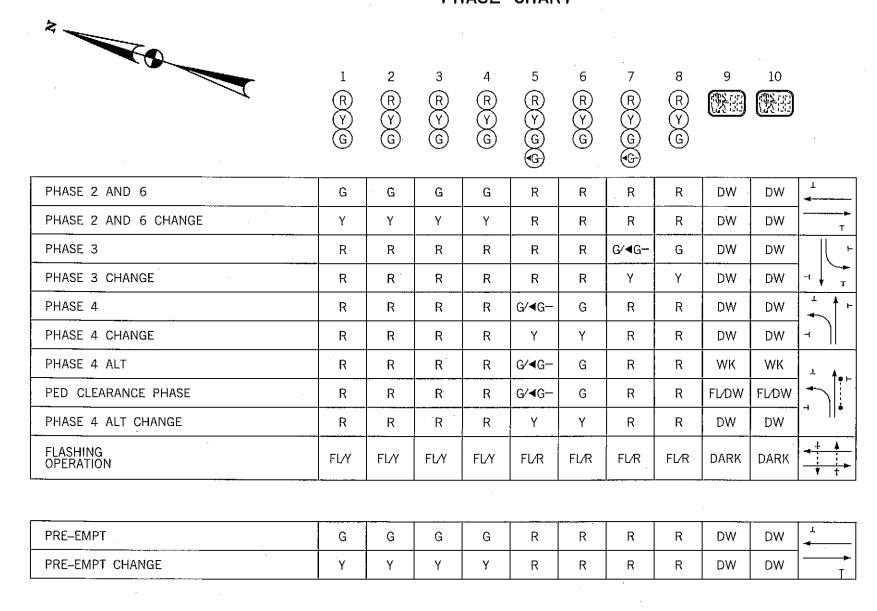
Α.	EQUIPMENT	TO B	Ε	FURNISHED	ВΥ	STATE	HIGHWAY	ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9570	22 SF	SHEET ALUMINUM GROUND MOUNTED SIGN 2 EA S1-1 - 36"X36" 1 EA W16-7P(L) - 24"X12"
9571	2 SF	1 EA W16-7P(R) - 24"X12" SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 2 EA 'PUSH BUTTON TO CROSS B & A BLVD ->' - 9"X15"
B. EQUIPMENT	TO BE FURNISHED	AND/OR INSTALLED BY CONTRACTOR
ITEM NO.	QUANTITY	DESCRIPTION

ITEM NO.	QUANTITY	DESCRIPTION
1003	450 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH
6002	140 LF	COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
6003	50 LF	CURB ANY HEIGHT
6006	1150 SF	5 INCH CONCRETE SIDEWALK
6007	50 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	2 EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8002	2 EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE
8003	2 EA	FURNISH AND INSTALL LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8004	1 EA	REMOVE AND DISPOSE EXISTING MATERIAL PER ASSIGNMENT
8007	55 LF	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8009	1 EA	ADJUST EXISTING HANDHOLE
8010	130 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8013	24 SF	INSTALL GROUND MOUNTED SIGN
8018	170 LF	ELECTRICAL CABLE - 2 CONDUDCTOR (NO. 14 AWG)
8019	160 LF	ELECTRICAL CABLE - 5 CONDUDCTOR (NO. 14 AWG)
8020	995 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8021	. 260 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
NEG.	· 16 LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
NEG.	20 LF	1 INCH DIAMETER FLEXIBLE STEEL CONDUIT
NEG.	455 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET, THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

PHASE CHART





WIRING DIAGRAM

WIRING KEY:

A.B - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C,D - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

- PROPOSED LOOP WIRE

- 1 CONDUCTOR (NO. 6 A.W.G.) STRANDED BARE COPPER GROUND WIRE

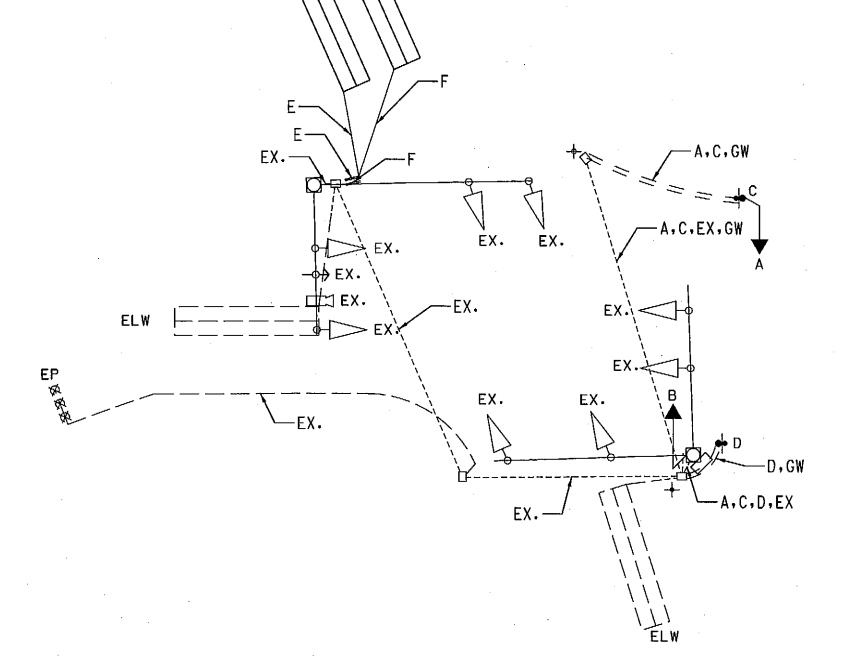
- EXISTING CABLE

EP - EXISTING PROBES

ELW - EXISTING LOOP WIRE

- EXISTING GROUND ROD

- PROPOSED GROUND ROD





SCALE N.T.S. DATE

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 648D AT McKINSEY RD /RIGGS AVE APS/CPS UPGRADE

SEVERNA PARK, MD

6/19/2013 CONTRACT NO. XX5295178

SHEET NO. 3 OF 3

GENERAL INFORMATION SHEET

DRAWING SG - 03 OF 03

COUNTY ANNE ARUNDEL DESIGNED BY __ LOGMILE ____ 02064803.61 TIMS NO. ___ TOD NO. _

PARSONS BRINCKERHOFF

100 S. Charles Street Tower 1, 10th Floor Baltimore, MD 21201 (Ph) 410-787-5050 (Fax) 410-727-4608 http://www.pbworld.com

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TS NO. 305G-GI